

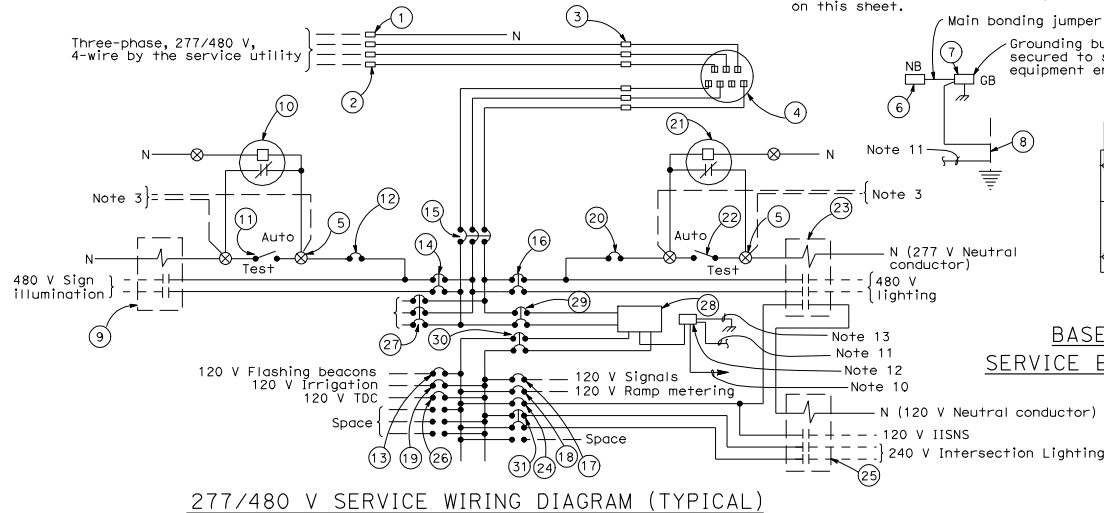
NOTES: (FOR SERVICE EQUIPMENT ENCLOSURE)

1. Voltage ratings of service equipment shall conform to the service voltages indicated on the plans.
2. Unless otherwise indicated on the plans, service equipment items shall be provided for each service equipment enclosure as shown.

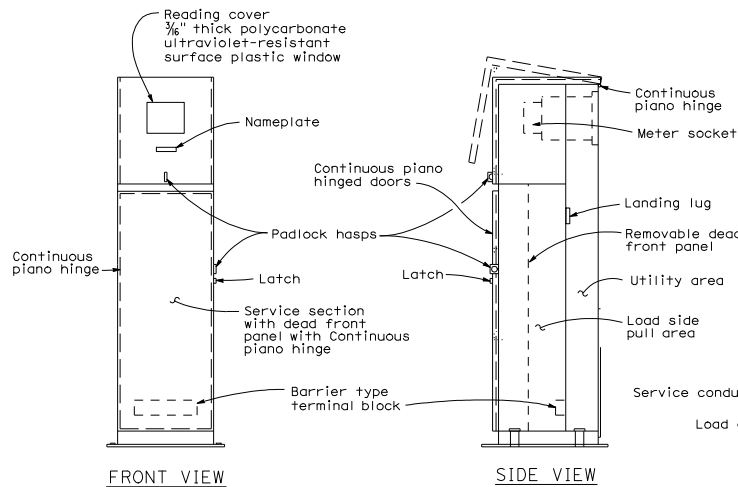
3. Connect to remote test switch mounted on lighting standards, sign post or structure when required.
4. Items No. ① and ⑥ shall be isolated from the service equipment enclosure.
5. Meter sockets shall be the 7 clip type.

6. The landing lug shall be suitable for multiple conductors.
7. Type I photoelectric control shall be used unless otherwise indicated on the plans.
8. Service pedestal shall meet the requirements of EUSERC 308 or 309 in addition to the information given on this sheet.

9. Color of insulation of the neutral shall be gray for the 277/480 V system and shall be white for the 120/240 V system.
10. 120/240 V transformer grounded circuit conductor (neutral conductor).
11. 120/240 V transformer grounding electrode conductor.
12. 120/240 V system neutral bus and ground bus.
13. 120/240 V enclosure bonding jumper.

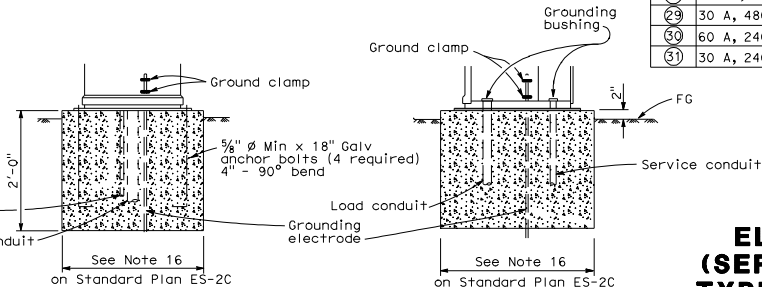


277/480 V SERVICE WIRING DIAGRAM (TYPICAL)



FRONT VIEW

SIDE VIEW

TYPE III-D SERVICE EQUIPMENT ENCLOSURE
WITH PROVISIONS FOR ONE 100 A METER (TYPICAL)

FRONT VIEW

SIDE VIEW

TYPE III-D SERVICE EQUIPMENT
ENCLOSURE FOUNDATION DETAILS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

Jeffrey G. McRae
 REGISTERED ELECTRICAL ENGINEER
 No. E14512
 May 1, 2006
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 Jeffrey G. McRae
 No. E14512
 Exp. 6-30-06
 ELECTRICAL
 STATE OF CALIFORNIA

TYPE III-D SERVICE (277/480 V) EQUIPMENT LEGEND

ITEM No.	COMPONENT	NAME PLATE DESCRIPTION
①	Neutral lug	
②	Landing lug	
③	Test bypass facility	
④	Meter socket and support	
⑤	Terminal blocks	
⑥	Neutral bus	
⑦	Ground bus	
⑧	Grounding electrode	
⑨	30 A, 2PNO Contactor	Sign Illumination (480 V)
⑩	Photoelectric unit (Note 7)	
⑪	15 A, 1P, Test switch	Sign Illumination Test Switch (277 V)
⑫	15 A, 277 V, 1P, CB	Sign Illumination Control (277 V)
⑬	15 A, 120 V, 1P, CB	Flashing Beacon (120 V)
⑭	15 A, 480 V, 2P, CB	Sign Illumination (480 V)
⑮	100 A, 480 V, 3P, CB	Main Breaker (480 V)
⑯	15 A, 480 V, 2P, CB	Lighting (480 V)
⑰	50 A, 120 V, 1P, CB	Signals (120 V)
⑱	30 A, 120 V, 1P, CB	Ramp Metering (120 V)
⑲	20 A, 120 V, 1P, CB	Irrigation (120 V)
⑳	15 A, 277 V, 1P, CB	Lighting Control (277 V)
㉑	Photoelectric unit (Note 7)	
㉒	15 A, 1P, 277 V, Test switch	Lighting Test Switch (277 V)
㉓	30 A, 3PNO Contactor	Lighting (480 V)
㉔	15 A, 120 V, 1P, CB	IISNS (120 V)
㉕	30 A, 3PNO Contactor	Intersection Lighting (240 V)
㉖	20 A, 120 V, 1P, CB	Telephone Demarcation Cabinet (120 V)
㉗	20 A, 480 V, 3P, CB	Spare
㉘	10 kVA, 480-120/240 V Transformer	10 kVA, 480-120/240 V, 1Ø
㉙	30 A, 480 V, 2P, CB	Xfmr Primary (480 V)
㉚	60 A, 240 V, 2P, CB	Xfmr Secondary (240 V)
㉛	30 A, 240 V, 2P, CB	Intersection Lighting (240 V)

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
 (SERVICE EQUIPMENT AND
 TYPICAL WIRING DIAGRAM,
 TYPE III-D SERIES)**
 NO SCALE

ES-2G